CLAIMS

What is claimed is:

- 1. A process comprising:
- (a) providing a protecting group-substituted tocopherol compound;
- (b) purifying the protecting group-substituted tocopherol compound;
- and
- (c) solvolyzing the purified compound to form free tocopherol.
- 2. The process according to claim 1, wherein the solvolyzing is carried out under an inert atmosphere.
- 3. The process according to claim 2, wherein the inert atmosphere comprises nitrogen.
- 4. The process according to claim 1, wherein the protecting group-substituted tocopherol compound comprises an ester.
- 5. The process according to claim 4, wherein the ester is selected from the group consisting of an acetate, a succinate, a phosphinate, a sulfonate and a carbonate.
- 6. The process according to claim 4, wherein the ester comprises a compound selected from the group consisting of an acetate and a succinate.
- 7. The process according to claim 4, wherein the ester comprises an acetate.
- 8. The process according to claim 1, wherein the tocopherol compound comprises α -tocopherol.

- 9. The process according to claim 8, wherein the α -tocopherol is present in an amount of at least about 80% by weight based on the total tocopherol content.
- The process according to claim 1, wherein the tocopherol compound comprises d- α -tocopherol.
- 11. The process according to claim 10, wherein the d- α -tocopherol is present in an amount of at least about 80% by weight based on the total tocopherol content.
- 12. The process according to claim 1, wherein the tocopherol compound comprises a natural-source tocopherol.
- 13. The process according to claim 12, wherein the protecting group-substituted tocopherol compound comprises an ester.
- 14. The process according to claim 13, wherein the ester comprises a compound selected from the group consisting of an acetate and a succinate.
- 15. The process according to claim 13, wherein the ester comprises an acetate.
- 16. The process according to claim 1, wherein purifying the protecting group-substituted tocopherol compound comprises crystallizing the compound from a solvent and collecting the crystallized compound.
- 17. The process according to claim 16, wherein collecting the crystallized compound comprises filtration.

- 18. The process according to claim 16, wherein the solvent comprises a lower alcohol.
- 19. The process according to claim 16, wherein the solvent comprises isopropanol.
- 20. The process according to claim 16, wherein crystallizing the compound is carried out at a temperature below room temperature and above the freezing point of the solvent.
- 21. The process according to claim 16, wherein the solvent comprises isopropanol and crystallizing the compound is carried out at a temperature of from about 10°C to about -50°C.
- 22. The process according to claim 16, further comprising remixing the crystallized compound with the solvent and repeating the crystallizing and the collecting at least once in sequential order.
- 23. The process according to claim 1, wherein the protecting group-substituted tocopherol compound comprises an ester, and wherein solvolyzing the ester comprises a reaction selected from the group consisting of acid-catalyzed hydrolysis and base-promoted hydrolysis.
- 24. The process according to claim 1, wherein the protecting group-substituted tocopherol compound comprises an ester, and wherein solvolyzing the ester comprises base-promoted hydrolysis.
- 25. The process according to claim 24, wherein solvolyzing the ester comprises reacting the ester with an aqueous solution of a basic compound

selected from the group consisting of alkali metal hydroxides, alkaline earth metal hydroxide, ammonium hydroxide, and metal hydrides.

- 26. The process according to claim 25, wherein the basic compound comprises an alkali metal hydroxide.
- 27. The process according to claim 25, wherein the basic compound comprises sodium hydroxide.
- 28. The process according to claim 24, wherein the hydrolysis is carried out in the presence of an alcohol solvent.
- 29. The process according to claim 28, wherein the alcohol solvent comprises isopropanol.
- 30. The process according to claim 24, wherein the hydrolysis is carried out in the presence of a reducing agent.
- 31. The process according to claim 30, wherein the reducing agent comprises sodium borohydride.
- 32. The process according to claim 15, wherein the hydrolysis is carried out under reflux conditions.
 - 33. A process comprising:
 - (a) providing an acetate of a natural-source tocopherol compound;
- (b) crystallizing the acetate of the tocopherol compound from a solvent comprising isopropanol and collecting a purified acetate of the tocopherol compound; and

- (c) reacting the purified acetate with an aqueous solution of sodium hydroxide in isopropanol under a nitrogen atmosphere at reflux conditions to form free tocopherol, in the presence of a reducing agent comprising sodium borohydride.
 - 34. A process for purifying a tocopherol, said process comprising:
 - (a) providing a starting material comprising a tocopherol compound;
- (b) reacting the starting material with a protecting group to form a reaction mixture comprising a protecting group-substituted tocopherol compound;
- (c) separating the protecting group-substituted tocopherol compound from the reaction mixture to form a purified protecting group-substituted tocopherol compound; and
 - (d) solvolyzing the purified compound to form a free tocopherol.
 - 35. A process comprising:
 - (a) providing an ester of a tocopherol compound,
- (b) reacting the ester with an aqueous solution of a basic compound in an alcohol solvent under an inert atmosphere to form free tocopherol, in the presence of a reducing agent.
- 36. A composition comprising a natural tocopherol compound, wherein the composition has a color-stability such that the composition has a Gardner color value of less than about 6 after 24 hours at a temperature of up to about 60°C.
- 37. A composition comprising a color-stable, natural tocopherol compound, wherein the composition has an l-tocopherol content less than about 0.75% and a total non- α -tocopherol content of less than about 2%.
- 38. A composition comprising a color-stable, natural tocopherol compound prepared by a process according to claim 1.

- 39. A composition comprising a color-stable, natural tocopherol compound prepared by a process according to claim 34.
- 40. A composition comprising a color-stable, natural tocopherol compound prepared by a process according to claim 35.